



Coatings Application Guide

Your Polymer Partner

Mallard Creek Polymers is a world-class manufacturer of specialty polymer latex emulsion products. With appropriate formulation, our latex polymers build strong, continuous films that provide excellent moisture vapor barrier properties, low water absorption rates, application at low temperatures, and adhesion to a variety of substrates.

A HISTORY OF INNOVATION

Paints and coatings are used to protect substrates and provide required performance characteristics. Meeting these requirements requires formulating with sophisticated polymers optimized for the specific application.

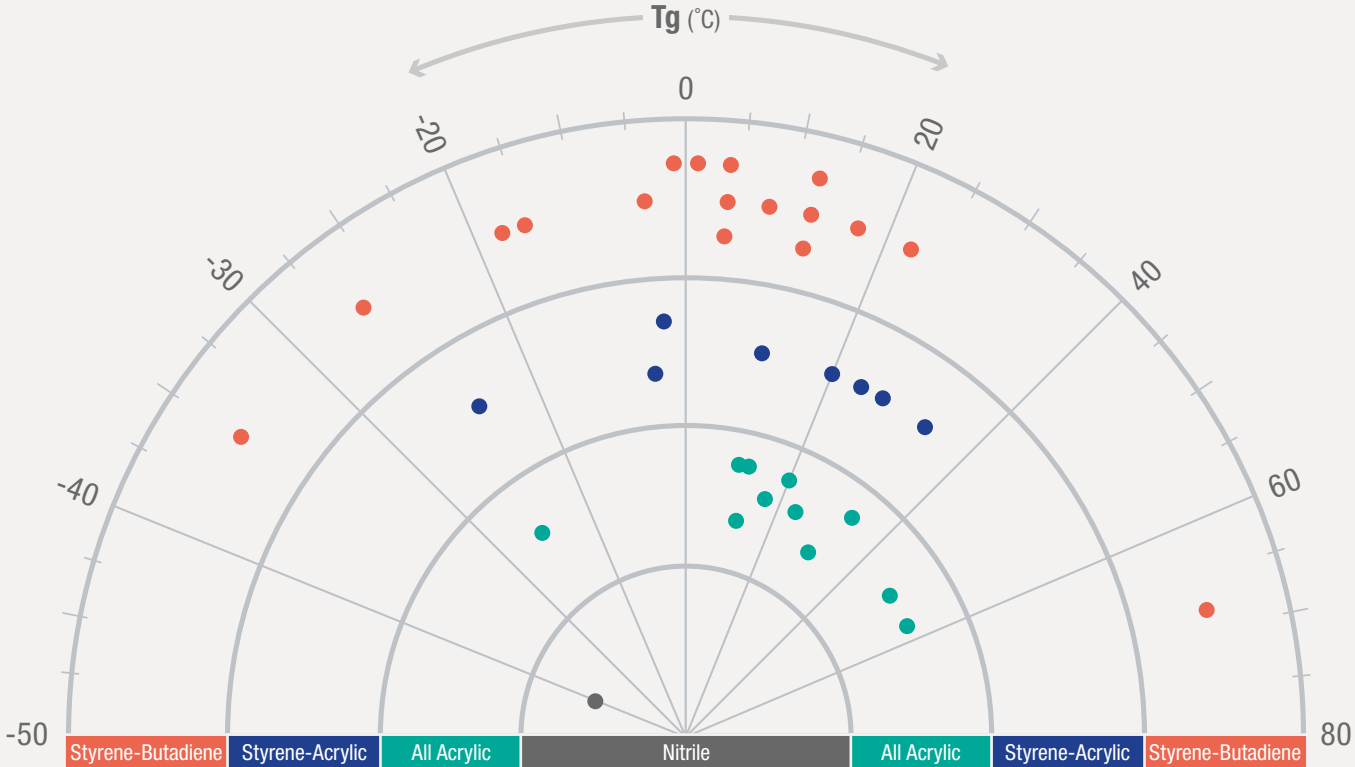
Rovene® and BarrierPro® polymer emulsions from Mallard Creek are designed for use in high-performance coatings. These products ensure outstanding performance in such applications as waterproofing, concrete coatings and sealers, running track, and elastomeric roof coatings.

A COMMITMENT TO COLLABORATION

At the same time, our water-borne emulsions can be customized further depending on your unique needs and requirements. We will work with you to define the right chemistry for your application. We can use different additives and monomers to build custom solutions that exhibit specific properties.

GLASS TRANSITION TEMPERATURE

At Mallard Creek Polymers, we rely on Tg to understand how a polymer will perform at the range of temperatures to which it will be exposed. The polymer emulsion should be selected after considering the Tg and specific performance requirements. Our specialists will work with you to understand your needs and determine how to best build a product of superior performance.



Coating Product Guide

Based on your unique performance requirements, we will work with you to define the right chemistry and identify the right product for your application. We offer a diverse line of products for coatings and seek to customize a new grade specific for your use. In this guide, you will find a comprehensive product list, product application details and common uses, and important product specs.

Product Name	Emulsion Properties				APEO Free	Applications							Substrates						Description & Applications
	Tg (°C)	MFFT (°C)	Solids (%)	pH		1K Membranes	Low MVTR Primers	Underbody Coatings	OSB Edge Seal	Metal Coatings	Concrete Coatings	Temporary Protective/Peelable	Cement Compatible	Wood	Concrete	Asphalt	EPDM	Metal	
Rovene 5044	-35	-	50.75	7.5		•				•	•			•	•	•	•	•	Excellent water resistance; superior crack bridging and flexibility; 1K membranes
BarrierPro 4553	-26	-	53.0	8.75	•	•								•	•	•	•	•	Provides maximum flexibility at low temperatures with good water resistance
BarrierPro 4555	-17	-	51.0	9.5	•	•				•	•			•	•	•	•	•	Excellent water resistance, flexibility at low temperatures, built to disperse pigments, and low permeability; 1K membrane systems
Tylac 4193	-15	-	51.5	9.5								•		•	•	•	•	•	A soft, flexible styrene-butadiene concrete modifier. Increased flexibility, adhesion, and water/ion resistance to cementitious systems
Rovene 4009	-4	4.2	54.0	7.3	•		•												Low permeability in thin film applications; MVTR primers
Rovene 4043	-1	-	50.3	7.8	•							•	•	•	•	•	•	•	Non-carboxylated, cement-compatible polymer for cement modified coatings providing flexibility and improved adhesion to multiple substrates
BarrierPro 4550	1	10	50.0	9.5	•	•				•				•	•		•		Excellent water resistance, built to disperse pigments, low permeability, low odor; 1K membrane systems
Tylac 4190	3	12	51.5	11.0								•		•	•		•		Improved adhesion, water resistance, flexural strength, and resistance to freezing and thawing; reduced water-cement ratios
Rovene 4002	4	14	50.3	8.3	•		•	•					•						Provides a tough film and low permeability in thin film applications; MVTR primers
Rovene 4076	4	12	50.3	9.0	•		•								•				Provide low permeability in thin films, for use on multiple substrates; MVTR primers
Rovene 4170	4	12	50.3	9.0	•						•		•	•	•	•	•	•	Workhorse, offers unique performance in multiple applications
BarrierPro 4551	7	8	53.5	9.0	•	•				•				•	•		•		Excellent water resistance and strength, built to disperse pigments and low permeability; 1K membrane systems
Rovene 4011	8	8	53.5	9.6	•					•				•	•	•	•		Excellent strength properties with flexibility, superior water resistance, and excellent adhesion to multiple substrates
BarrierPro 4545	12	8	52.0	8.1	•	•		•	•	•	•			•	•		•		Workhorse for thin & thick film applications over multiple substrates; 1K membrane systems, OSB and edge seal, concrete primers, metal coatings
Rovene 4180	12	17	55.0	7.3	•		•		•					•	•		•		Provides the ability to compound at high filler loading; metal and landscaping coatings
Rovene 4546	12	7	52.0	8.3	•			•	•					•			•		General purpose with excellent water resistance; metal coatings, OSB/edge seal and primers
Rovene 4541	17	17	51.0	8.5	•				•								•		Water resistance with a capacity to accept high filler loading, block resistance, and adhesion to multiple substrates including wood and metal
Rovene 4021	22	21	50.0	8.9	•		•		•								•		Built to disperse pigments and provides adhesion; metal coatings
Rovene 4106	69	53	50.0	8.8	•								•						Hard films with excellent water resistance; blend vehicle for block resistance

STYRENE-BUTADIENE

Coating Product Guide Continued

	Product Name	Emulsion Properties				APEO Free	Applications						Substrates						Description & Applications
		Tg (°C)	MFFT (°C)	Solids (%)	pH		1K Membranes	General Coatings	Elastomeric Coatings	Metal Coatings	Concrete Coatings	Temporary Protective/Peelable	Cement Compatible	Wood	Concrete	Asphalt	EPDM	Metal	
STYRENE-ACRYLIC	Rovene 6119	-24	-	52.0	9.0	●			●		●			●	●	●	●		Provides flexibility at low temperatures and water resistance; Elastomeric roof coatings
	Rovene 6124	-4	-	50.5	9.3	●			●		●			●	●	●	●		Offers a balance of strength and flexibility, excellent water resistance, maintains tensile strength when compounded with fillers
	Rovene 6121	-3	0	51.5	9.0	●			●		●			●	●	●	●		Provides flexibility and strength, water resistance; Elastomeric Roof Coatings
	Rovene 6133	10	12	50.0	7.5			●											Exhibits excellent water resistance, strength, and adhesion to multiple substrates
	Rovene 6026	20	16	49.0	8.5	●				●			●		●	●			Ideal for a variety of interior/exterior applications; metal and landscaping coatings
	Rovene 6034	23	15	51.0	8.5	●				●			●		●	●			General use latex for multiple paint and coating applications for interior paints, outdoor landscape coatings, or coatings for metal
	Rovene 6018	27	21	51.0	7.8	●		●		●			●	●		●			Excellent wet and dry adhesion to inorganic surfaces, outstanding filler loading capacity, excellent stability in highly filled systems, silanated with enhanced adhesion
	Ecronova 6607	33	35	51.0	8.3	●		●											Features good adhesion, block resistance, hardness, water and alkali resistance
ALL ACRYLIC	Rovene 6120	-26	-	54.5	9.0	●			●		●			●	●	●	●		Provides good adhesion to substrates, balance of strength and flexibility, excellent water resistance, ASTM 6083, Type 1
	Rovene 6027	10	11	50.5	8.5	●		●						●	●		●		General use latex with improved water resistance
	Rovene 403	12	20	46.5	8.0							●		●	●		●		Low odor and interior formulations with cement
	Rovene 6523	12	17	47.0	6.7			●						●	●		●		General use latex designed for interior/exterior applications, low odor/ammonia free, excellent water resistance
	Rovene 6023	17	16	47.0	9.5							●		●	●		●		Exterior topcoat, EIFS and Stucco systems
	Rovene 6035	20	3	47.5	8.5	●				●			●						Excellent water resistance; superior crack bridging and flexibility
	Ecronova 6608	23	10	43.0	8.0	●				●	●			●		●	●		Ambient cure, offers a low MFFT with a very hard film, excellent block and alkaline resistance
	Rovene 6117	30	26	48.0	7.0	●				●	●	●		●	●				Excellent efflorescence, water, and chemical resistance; clear concrete coatings, peelable coatings
	Ecronova 6620	33	23	50.0	8.5	●				●				●		●			Ambient cure, adhesion to multiple substrates; metal coatings
	Ecronova 6630	57	51	41.0	7.0	●				●				●		●			Ambient cure, high hardness and scratch resistance as well as good wetting of wood substrates; interior wood coatings
NITRILE	Tylac 873	-40	-	43.3	8.4	●					●			●		●		Resistance to oil, grease, and solvents, compatible with anionic asphalt emulsions, excellent strength, and without tack. For use in asphalt sealers and as a blend vehicle.	



8901 Research Drive
Charlotte, NC 28262

1-877-240-0171

info@mcpolymers.com

www.mcpolymers.com



Siemensstraße 42
59199 Bönen, Germany

+49 2383 919-562

www.mcpolymers.com/mcp-europe